

What is claimed is:

1. A bass drum pedal comprising:
 - a base plate;
 - two laterally spaced upright posts mounted on and attached
- 5 to said base plate;
 - a rotating shaft rotatably supported by said two posts at the upper portions of said two posts;
 - an eccentricity-adjustable cam system comprising a cam core mounted on said rotating shaft, a cam member rotatably
- 10 connected to said cam core, a first pin rotatably connecting said cam member with said cam core, a positioning member rotatably connected to said cam member, a second pin rotatably connecting said positioning member with said cam member, and a set screw for fastening said
- 15 positioning member onto said cam core;
- a foot board hingedly connected to said base plate to be actuated by a user's foot;
- a flexible drive linkage drivingly connecting said foot board with said eccentricity-adjustable cam system;
- 20 a beater driven by said rotating shaft to strike a drum head;
- a crank carried by said rotating shaft;
- and a spring connected between said crank and the lower end of one of said two posts;
- 25 wherein said positioning member comprises a slot passing therethrough, and said cam core comprises a female thread

for engaging said set screw, and said set screw fastens said positioning member onto said cam core through said slot, and

wherein said positioning member is adjustably positioned
5 onto said cam core by said set screw and said female thread while said cam core remains affixed to said rotating shaft to thereby adjust the eccentricity of said eccentricity-adjustable cam system.

10 2. The bass drum pedal of claim 1, wherein said positioning member further comprises a plurality of grooves, and said cam core further comprises a protrusion for engaging one of said grooves.

15 3. An eccentricity-adjustable cam system for a foot-actuated drum pedal for beating a drum, said eccentricity-adjustable cam system comprising:

a cam core comprising a bore to hold a rotating shaft passing therethrough;

20 a cam member rotatably connected to said cam core;

a first pin rotatably connecting said cam member with said cam core;

a positioning member rotatably connected to said cam member;

25 a second pin rotatably connecting said positioning member with said cam member;

a set screw for fastening said positioning member onto said cam core;

5 said positioning member comprising a slot passing therethrough, and said cam core comprising a female thread for engaging said set screw,

wherein said set screw fastens said positioning member onto said cam core through said slot, and
wherein said positioning member is adjustably positioned onto said cam core by said set screw and said female thread
10 while said cam core remains affixed to said rotating shaft to thereby adjust the eccentricity of said eccentricity-adjustable cam system.

4. An eccentricity-adjustable cam system of claim 3,
15 wherein said positioning member further comprises a plurality of grooves, and said cam core further comprises a protrusion for engaging one of said grooves.